

ABSTRACT OF THE DISCLOSURE

A variable compression ratio engine 100 has a compression ratio varying mechanism, which moves a cylinder block 103 relative to a lower case 104. The rotational driving force of a servo motor 112 is transmitted to vertical sliding movements of the cylinder block 103 by means of cam shafts 109 with eccentric cams. A row of first spring members 140 and a row of second spring members 150 are arranged on both sides of the cylinder block 103. The resultant spring force of the first spring members 140 and the second spring members 150 is applied to the cylinder block 103 and the lower case 104. The resultant spring force works to reduce the transmission torque of the rotational driving force of the servo motor 112 and assist the compression ratio varying mechanism to vary a compression ratio of the engine 100. The technique of the invention desirably simplifies the control procedure of varying the compression ratio of the engine and reduces the size of the mechanism required for this purpose.